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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,144	08/18/2003	Gwang Hoon Kwag	61282.00007	3284
30256 75	90 02/18/2005		EXAMINER	
SQUIRE, SANDERS & DEMPSEY L.L.P 600 HANSEN WAY			NUTTER, NATHAN M	
	WA1 CA 94304-1043		ART UNIT PAPER NUMBER	
ŕ			1711	
			DATE MAILED: 02/18/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/643,144	KWAG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Nathan M. Nutter	1711	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rim - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a eply within the statutory minimum of the will apply and will expire SIX (6) MO ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	n.
Status			
1) Responsive to communication(s) filed on	nis action is non-final. vance except for formal ma	•	S
Disposition of Claims			
4) ☐ Claim(s) 1-4 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-4 are subject to restriction and/or	rawn from consideration.		
Application Papers			
9)⊠ The specification is objected to by the Exami 10)⊠ The drawing(s) filed on 18 August 2003 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11)□ The oath or declaration is objected to by the	e: a)⊠ accepted or b)⊡ c ne drawing(s) be held in abeya ection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(a	d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a light	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 1203, 0504.	Paper No	Summary (PTO-413) (s)/Mail Date: Informal Patent Application (PTO-152) 	

121:

DETAILED ACTION

Objections to the Specification

A substitute specification in proper idiomatic English and in compliance with 37 CFR 1.52(a) and (b) is required. The substitute specification filed must be accompanied by a statement that it contains no new matter.

Objections to the Claims

Claims must be written in singular sentence form, only. Each of claims 1-4 is improperly written.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C.

- Claims 1, 2 and 4/2, drawn to a ladder-type polymer, classified in class
 525, subclasses 199, 203, 204, 206, 217 and 241.
- II. Claims 3 and 4/3, drawn to a ladder-type polymer, classified in class 525, subclasses 199, 203, 204, 206, 217 and 241.

The inventions are distinct, each from the other because of the following reasons:

Inventions of Group I and of Group II are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as an LED screen material and the inventions are deemed patentably distinct since there is

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nothing on this record to show them to be obvious variants. Should applicant traverse

on the ground that the species are not patentably distinct, applicant should submit

evidence or identify such evidence now of record showing the species to be obvious

variants or clearly admit on the record that this is the case. In either instance, if the

examiner finds one of the inventions anticipated by the prior art, the evidence or

admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Because these inventions are distinct for the reasons given above and have

acquired a separate status in the art because of their recognized divergent subject

matter, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct

species of the claimed invention:

For A:

- 1) polyfluorene,
- 2) polythiophene,
- 3) polypyrrole,
- 4) polycarbazole,
- 5) polyphenylene,
- 6) polyaniline, or
- 7) polypyridine.

For B:

1) polystyrene,

- 2) polypyrrol,
- 3) polycarbonate,
- 4) polythiophene,
- 5) polyphenylene,
- 6) polyaniline,
- 7) polypyridine, or
- 8) polycarbazole.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

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showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Due to the complexity of the restriction, applicants' counsel was not contacted telephonically.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan M. Nutter whose telephone number is 571-272-1076. The examiner can normally be reached on 9:30 a.m.-6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nathan M. Nutter Primary Examiner Art Unit 1711

nmn

17 February 2005